

#19.

Hawaiian Explorations.

D^s 4110 - D^s 4137

HY 4609 - HY 4630

July 24th - Aug. 1st, 1902

Next Hy. 4609.
" Dr. 4110.

4110
3790

3

65
6 06.80
5 57.30

6.50

9.20
4.40

4110
3790

3

$$\begin{array}{r} 18\frac{1}{2} \\ \hline 54 \\ \hline 6 \end{array}$$

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Autism

No. *4110* Date *24 July '02.*

Sigsbee Machine. / Reel. *Nav.*

Turns *410* Cor. + *39* Depth *449 fms.*

~~Shot~~ lead *36* Lbs.

Bottom *76 Specimen gy. S.*

Bottom temperature *40.3°*

No. of thermometer *98236.* Cor. *-*

Corrected temperature *40.3* (*N 57° E*)

Air *82* Surface *76* Drift (*29/10'*)

Trawl or dredge *8' Tanner with apron.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12-31.40</i>	<i>40.00</i>	0	<i>12-48.10</i>	<i>22.30</i>
<i>32.20</i>	<i>38.55</i>	100	<i>52.35</i>	<i>18.50</i>
<i>33.05</i>	<i>37.50</i>	200	<i>56.30</i>	<i>15.05</i>
<i>33.55</i>	<i>36.55</i>	300	<i>1-00.40</i>	<i>11.10</i>
<i>34.45</i>	<i>35.45</i>	400	<i>04.50</i>	<i>07.15</i>
<i>35 =</i>	<i>35.40</i>	500	<i>08.15</i>	<i>2-03.20</i>
		600	<i>11.30</i>	<i>59.20</i>
		700	<i>15 =</i>	<i>55.30</i>
		800	<i>19.05</i>	<i>50.40</i>
		900	<i>27.30</i>	<i>1-46.30</i>
		1000	<i>20 min</i>	
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*also marks and
of
Dr. 4109.*

Lae-o Ka Laau Light, Molokai Id.
 S 24° E, 18 7/10

OK
 H.W.
 1/2

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

4310
 410
 3900
 205
 165
 39
 410
 449

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Next	Hy. 4609.		
50	"	Dr. 4110.		
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Course O.K. (near)

Hutchinson
Harry

No. *4111* Date *July 24* th
Sigsbee Machine. # *1* Reel. *Harry*
 Turns *470* Cor. + *40* Depth *460 fms*
 Shot or lead *36 lbs.*
 Bottom *fm S. R*
 Bottom temperature *40°*
 No. of thermometer *98236* Cor. *0*
 Corrected temperature *40.0* (N *38° E*
 Air *81* Surface *77* Drift *9/10*
 Trawl or dredge *8 Tanner with apron.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-24.15</i>	<i>32.25</i>	0	<i>2-37.00</i>	<i>4.52.00</i>
<i>24.55</i>	<i>31.20</i>	100	<i>42.05</i>	<i>48.00</i>
<i>25.35</i>	<i>30.20</i>	200	<i>46.00</i>	<i>44.30</i>
<i>26.20</i>	<i>29.20</i>	300	<i>49.50</i>	<i>40.40</i>
<i>27.10</i>	<i>28.10</i>	400	<i>53.50</i>	<i>36.50</i>
<i>27.30</i>	<i>28.00</i>	<i>420</i>	<i>57.10</i>	<i>27.30</i>
		600	<i>3.00.55</i>	<i>14.00</i>
<i>Marker and A</i> <i>N 4101</i>		700	<i>06.20</i>	<i>4.03.20</i>
		800	<i>11.20</i>	<i>58.00</i>
		900	<i>15.30</i>	<i>35.45</i>
		1000	<i>20 min</i>	
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lae-o Ka Laan Light, S 15° 30' E, 19 1/10'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	205	3500	
420	165	3600	
3890	40	3700	
	420	3800	
	460	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

3:45 P.M.

REMARKS:

Held at 820 fms, heavy strain,
 moved to 870 fms.
 strain reached 4000 lbs
 Wires carried away and
 net came up cupped.
 Nothing lost, net not lost.

No. 4609 Hy Date 24 July 1902
 Machine. 1 Reel. 1
 Turns 429 Cor. + 41 Depth 470 fms.
~~Shot or lead~~ 36
 Bottom fine s. sh. 40 f
 Bottom temperature
 No. of thermometer 98236 Cor. 0
 Corrected temperature 46.0
 Air 79 Surface 76 Drift
~~Trawl or dredge~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4. 55.00	04.30	0		
55.50	03.15	100		
56.50	02.30	200		
57.50	01.30	300		
58.50	00.30	400		
4. 59.20	5.00.15	429		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

~~S.P.~~
Lae-o Ka Laan Lt, S 13° E, 20.0'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4310	295	
429	164	
388	41	
	429	
	470	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

PL. = 74

No. 4112

Date July 4 1902

Machine.

Reel.

Turns 408 Cor. + 39

Depth 447 fms.

Shot or lead 36 lbs.

Bottom fine S.

Bottom temperature

No. of thermometer 98236 Cor. -0

Corrected temperature 40.5 (834.2)

Air 79 Surface 76 Drift 2 1/10'

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

5. 37.20	47.20	0	5. 57.40	21.20
38.40	46.15	100	59.40	17.00
39.30	45.10	200	60.00	15.00
40.35	44.11	300	64.00	11.30
41.40	5. 43.10	400	10.00	7.03.30
41.45		408	11.00	5. 57.00
		500	20.00	5. 52.40
		600	23.20	6. 27.00
		700		
		800		
		900		
		1000	20	
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lae-o Ka Laaw Light, S 19° 30' E, 17.5'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
420	201	3500	
208	166	3600	
352	39	3700	
	105	3800	
	447	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

4113

Date

Machine.

Reel

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS

DOWN.

UP.

7.27.40	7.28.20	0	7.43.00	7.43.30
28.20	29.00	100	48. -	58.30
29.10	30.00	200	52.30	5.10
30.00	33.30	300	56.40	57.40
31.00	37.30	400	8.01. -	48.30
		500	05. -	44.45
		600	09.20	40.10
		700	14.30	8.30.30
		800		
		900	21	min.
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Also marks on
at
Lr. 4112.

Lae-o Ka Laan Light, S 26° E., 16 ⁴/₁₀'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
11/10	3600	11
3/10	3700	167
3/10	3800	3
	3900	5.2
	4000	433

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *413* Date *2-4*Machine. / Reel. *711*Turns *360* Cor. + *35* Depth *395* fms.Shot or lead *36* Lbs.Bottom *fine sand*Bottom temperature *41.*No. of thermometer *98236* Cor. *-0*Corrected temperature *41.0*Air *79°* - Surface *76°* - Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>9.06.25</i>	<i>9.14.10</i>	0		
<i>07.20</i>	<i>13.05</i>	100		
<i>08.05</i>	<i>12.-</i>	200		
<i>09.-</i>	<i>10.55</i>	300		
<i>9.09.55</i>	<i>9.10.20</i>	360		
		400		
		500		
<i>also made and</i>		600		
		700		
<i>41/3.</i>		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lae-o Ka Loan Light, S 25° 30' E, 19.5

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

360
360
3950

305
170
380
395

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

To this sounding the lead, the
auxiliary lead, and ^{the} thermometer were
attached in the order mentioned, as
usual, and in the usual manner.
But on coming up, when the sound-
ing, the thermometer was found
between the two leads!!

No. *4611* Date *24 Feb '02*
 Machine. Reel. *7*
 Turns *158* Cor. + *10* Depth *158 fms.*
 Shot or lead *36 Lbs.*
 Bottom *fine gy. S.*
 Bottom temperature
 No. of thermometer *None* Cor.
 Corrected temperature
 Air *79°* Surface *76°* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.41.30</i>	<i>10.46.25</i>	0		
<i>42.10</i>	<i>45.20</i>	100		
<i>10.43.40</i>	<i>10.44.55</i>	144		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

NE Coast of Oahu Id.
 Makapu Point, N 80° W. 3.0'

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 89.4

No. *H. 4612* Date *21 July '02*Machine. / Reel. *Sigsbee*Turns *261* Cor. + *26* Depth *287 fms.*Shot or lead *36 Lbs.*Bottom *fine sand*Bottom temperature *14.4* -No. of thermometer *98236* Cor. *-0.2*Corrected temperature *43.8*Air *79* Surface *76* Drift~~Trawl or dredge~~

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>11.36.50</i>	<i>11.42.20</i>	0		
<i>37.30</i>	<i>41.15</i>	100		
<i>38.20</i>	<i>40.15</i>	200		
<i>11.38.50</i>	<i>11.39.40</i>	<i>261</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Pt, 832°30' N, 5.2'

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

O.L 94.4

No. *4612* Date *July 25th*
 Machine *#1* Reel *Hand*
 Turns *535* Cor. + *53* Depth *688*
 Shot or lead *36 lbs.*
 Bottom *For.*
 Bottom temperature *38.10*
 No. of thermometer *75336* Cor.
 Corrected temperature *38.1*
 Air *77* Surface *76* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>23.40</i>	<i>47.25</i>	0		
<i>25.30</i>	<i>46.15</i>	100		
<i>26.45</i>	<i>45.10</i>	200		
<i>27.50</i>	<i>44.05</i>	300		
<i>29.50</i>	<i>42.55</i>	400		
<i>31.40</i>	<i>41.50</i>	500		
<i>33.40</i>	<i>40.40</i>	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Point, S 17° W, 9.5'

OK
3.50
3.50

4310	205
585	152
<hr/>	<hr/>
3725	53
	585
	<hr/>
	638

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Surface A x H. spec

Pat. Log 77.4

No. *4614* Date *July 30th*
Sigsbee Machine. # *1* Reel. *Wing.*
 Turns *1140* Cor. + *97* Depth *1237 fms*
 Shot or lead *35 lbs.*
 Bottom *fine sand*
 Bottom temperature *36.0*
 No. of thermometer *78336* Cor. *0*
 Corrected temperature *36.0*
 Air *78* Surface *77* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>38.55</i>	<i>04.40</i>	0		
<i>39.45</i>	<i>03.30</i>	100		
<i>40.35</i>	<i>02.25</i>	200		
<i>41.30</i>	<i>01.25</i>	300		
<i>42.25</i>	<i>2:00.20</i>	400		
<i>43.30</i>	<i>57.15</i>	500		
<i>44.20</i>	<i>58.10</i>	600		
<i>45.25</i>	<i>57.05</i>	700		
<i>46.15</i>	<i>55.55</i>	800		
<i>47.30</i>	<i>54.45</i>	900		
<i>48.40</i>	<i>53.30</i>	1000		
<i>49.50</i>	<i>52.15</i>	1100		
<i>50.30</i>	<i>51.35</i>	1140		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Pt, 811° N, 14.1'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	205	3500	
1120	108	3600	
3170	97	3700	
	1140	3800	
	1237	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Under 1000 ft. 76 spec

Pat. Log H. 4

No. *Hy 4615* Date *July 25th*Machine. #1 Reel. *Star*Turns *525* Cor. + *48* Depth *573 fms*Shot or lead *36 lbs.*Bottom *f. gy. s.*Bottom temperature *73.3*No. of thermometer *75336* Cor. *0*Corrected temperature *73.3*Air *78* Surface *77* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2.15.45</i>	<i>07.05</i>	0		
<i>57.25</i>	<i>06.50</i>	100		
<i>58.05</i>	<i>06.30</i>	200		
<i>58.50</i>	<i>06.15</i>	300		
<i>59.40</i>	<i>06.05</i>	400		
<i>1.00.35</i>	<i>02.05</i>	500		
<i>10.50</i>	<i>01.45</i>	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Pt, S 10° 30' E, 13.6'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	225	3500	
525	157	3600	
<hr/>		3700	
3785	48	3800	
	525	3900	
<hr/>		4000	
	573		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Sound No. 10. 1000

Pat Log 7.4

567.

No. *4616* Date *July 25*

Machine *#1* Reel *1st*

Turns *247* Cor. + *25* Depth *272 f*

Shot or lead *36 lbs*

Bottom *fine gy S 470*

Bottom temperature

No. of thermometer *98236* Cor. *0.2*

Corrected temperature *46.8*

Air *55* Surface *77* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

39.45

45.30

0

40.30

44.25

100

41.15

43.20

200

41.45

42.35

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Mokapu Pt, S 23° E., 14.4'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	205	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Current N x S. 1/2 sec

507.

U.S.N. 4.

No. 1161 Date 21 July 1904

Machine. 1 Reel.

Turns 207 Cor. + 31 Depth 338 fms

Shot or lead 36

Bottom fine gy. s. 432

Bottom temperature

No. of thermometer 98736 Cor. -0.2

Corrected temperature 42.0

Air 74 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.32.00	4.46.30	0		
43.10	46.50	100		
44.00	44.00	200		
44.50	44.20	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kahuku Point, 8-75 N., 9.0'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4310 20.	3500	
307	3600	
1003	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4613

Date July 1909

Machine. 1 Reel.

Turns 1031 Cor. +

89

Depth 1120

~~Shot or lead~~

Bottom

Bottom temperature

No. of thermometer 9736

Cor. 0

Corrected temperature

35.8

Air 78

Surface 77

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Kahuku Point, 849°N, 11.3'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	201	3500	
1031	116	3600	
3279	89	3700	
	1021	3800	
	1170	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4114* Date *21 July 02*
 Machine. / Reel.
 Turns *140* Cor. + *14* Depth *154 f.*
 Shot or lead *35 lbs.*

Bottom *co S. For.*

Bottom temperature *61. -*

No. of thermometer *9236* Cor. *0.3*

Corrected temperature *60.7*

Air *82* Surface *78* Drift *N 3° W.*

Trawl or dredge *8' Beam trawl*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>0.36 -</i>	<i>0.28.35</i>	0	<i>9.44.15</i>	<i>10.28.40</i>
<i>1.05</i>	<i>35 -</i>	100	<i>48.15</i>	<i>25.15</i>
<i>2.17.05</i>	<i>4.35.15</i>	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

N 72° 30' E, 9 3/10'
 Kahuku Pt, N 72° 30' E, 9 3/10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
150	3600	205
140	3700	
130	3800	
120	3900	
110	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

April

No. *Dr. 415*. Date *25 May 1881*

Sigsbee Machine. / Reel *7*

Turns *177* Cor. + *12* Depth *189 fms.*

Shot or lead *36 lbs.*

Bottom *co. S. For.*

Bottom temperature *55.4°*

No. of thermometer *96026* Cor. *-0.3*

Corrected temperature *55.1*

Air *80°* Surface *77°* Drift *N 5° W*

Trawl or dredge *5' 2' 10" beam trawl*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.31.15</i>	<i>10.35.10</i>	0	<i>10.40.00</i>	<i>11.11.05</i>
<i>31.55</i>	<i>34.10</i>	100	<i>41.20</i>	<i>32.00</i>
<i>10.32.15</i>	<i>10.33.10</i>	177	<i>42.30</i>	<i>25.00</i>
		200		<i>20.00</i>
		300	<i>43.40</i>	<i>15.00</i>
		400	<i>44.50</i>	<i>10.00</i>
		450	<i>10.58.00</i>	<i>11.15.00</i>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kahuku Pt, N 83° E., 9.0'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4116* Date *25 Aug 1881*
Rigsbee Machine. / Reel. *Navy*.
 Turns *219* Cor. + *0.2* Depth *219.2*
 Shot or lead *36 lbs.*
 Bottom *Co S. For*
 Bottom temperature *49. -*
 No. of thermometer *98236.* Cor. *-0.2*
 Corrected temperature *48.8* *UX 16° E*
 Air *81° -* Surface *77° -* Drift *29/15'*
 Trawl or dredge *3' Blake, 60 lb. 5 ft.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.39.25</i>	<i>11.43.25</i>	0	<i>11.51.25</i>	<i>57.25</i>
<i>40.15</i>	<i>43.15</i>	100	<i>55.25</i>	<i>55.25</i>
<i>41. -</i>	<i>42.10</i>	200	<i>59.25</i>	<i>53.25</i>
		300	<i>12.03.35</i>	<i>47.10</i>
		400	<i>15.25</i>	<i>43.15</i>
		500	<i>15.25</i>	<i>37.10</i>
		<i>550</i>	<i>15.25</i>	<i>12.36.15</i>
		700		
		800	<i>21.25.00</i>	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Also marks and
at
11.15.

Kahuku Pt, 88°30'E, 7/10'

2 1.2
2.2
4.4

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

327 Dr

MT.

No.

4117

Date

Machine.

Reel.

Turns

256

Cor. +

26

Depth

282 fms

Shot or lead

36

Bottom

cr S

45.8

Bottom temperature

No. of thermometer

75336

Cor.

-0.2

Corrected temperature

45.6

Air

81

Surface

77

Drift

2 1/10

Trawl or dredge

10' Blake, 60' S. H.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.35

22.25

0

1.11.00

22.25

01.25

25.50

100

25.50

17.35

02.15

25.50

200

22.00

13.25

02.50

04.10

256

23.40

09.00

Marker and up

400

27.40

05.20

No 4116

500

31.50

01.20

575

600

34.50

56.20

600

47.10

56.20

800

21 min

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Kahuku Pt., 264° 30' E., 4.0'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
4310	3400	205
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

328

No. 5

Date

July 25

Machine.

Reel.

Kary.

Turns 230 Cor. +

23

Depth

253 fms

Shot or lead

36 lbs

Bottom

m. s. For. R

Bottom temperature

46.0

No. of thermometer

75236

Cor.

Corrected temperature

11.5

154° E

Air

83

Surface

77

Drift

1.1

Trawl or dredge

10' Blake, 60#

J. W.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

24.00 20.00
 25.20 21.30
 26.40 22.55
 28.00 24.20

Marked and of
 5417

24.00 39.00
 39.10 35.00
 42.40 31.00
 46.25 27.00
 51.10 23.00
 55.25 19.00
 59.25 15.00
 63.00 11.00
 66.00 7.00
 69.00 3.00
 72.00 0.00

15 min

800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400

Run - K (44, 45, 04, 05, 06, 07, 08, 09, 10)

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
4310	3400	205
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Frame wrecked - upper beam badly
 out of line from 2500 ft. down
 and running badly bent, and
 not likely to be used - 17145

No. *4619* Date *July 25th*

Machine *#1* Reel. *1*

Turns *293* Cor. + *29*

Depth *322*

Shot or lead *36*

Bottom *Co. S. For*

Bottom temperature *44.8*

No. of thermometer *75336*

Cor. *-0.1*

Corrected temperature *44.6*

Air *83*

Surface *77*

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3-41.05
47.45

0

41.55
46.40

100

42.45
45.40

200

43.45
44.45
293
300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Reference, 1871

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Fraser worked; one sample
bottle was from same lot
mainly used; not used
any more.
see preceding page

No.

327

Date

Aug 21 05

Machine.

Reel.

Turns

76

Cor. +

8

Depth

84

7 fms

Shot or lead

36

Bottom

Co. S. (50)

Bottom temperature

64.5

No. of thermometer

7123

Cor.

-1.2

Corrected temperature

63.3

7.42° W.

Air

80

Surface

78

Drift

1.11

Trawl or dredge

Open

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

31.30

32.50

76

6.44.30

7.07.10

170

6.47.30

7.07.10

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

20

m

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS: Probably on bottom that very small
about 1000; probably 1000.

330

507.

No. 41120 Date July 21/01

Machine. Recl.

Turns 152 Cor. + 1/2 Depth 167

Shot or lead

Bottom Co S. gy. 30

Bottom temperature

No. of thermometer 91125 Cor. -0.3

Corrected temperature 52.7 { 52.1° W

Air 79 Surface 77 Drift 1 1/2

Trawl or dredge 8' 11' 1/2' with 1' 11' 1/2'

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.10	7.20.40	0	7.27.10	8.18.40
14.10	18.40	100	27.40	2.45
18.40	19.10	152	27.50	20.45
		200	28.10	21.10
		300	28.10	21.10
		400	28.10	21.10
		500	28.10	21.10
		600	28.10	21.10
		700	28.10	21.10
		800	28.10	21.10
		900	28.10	21.10
		1000	28.10	21.10
		1100	28.10	21.10
		1200	28.10	21.10
		1300	28.10	21.10
		1400	28.10	21.10
		1500	28.10	21.10
		1600	28.10	21.10
		1700	28.10	21.10
		1800	28.10	21.10
		1900	28.10	21.10
		2000	28.10	21.10
		2100	28.10	21.10
		2200	28.10	21.10
		2300	28.10	21.10
		2400	28.10	21.10

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

No. 10 Date Feb. 22

Sifts Machine. Reel.

Turns 196 Cor. + 20 Depth 210

Shot or lead 36 Lbs

Bottom *sh. s. s. s. s.*

Bottom temperature 49. -

No. of thermometer 2715, Cor. -0.7

Corrected temperature 48.8

Air Surface Drift.

Trawl or dredge S. T. ...

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8. 21.15	8. 26.00	0	8. 29.10	10. 32.30
8. 22. -	8. 26.30	100	8. 30. -	29. 30
8. 22.45	8. 27.00	100	8. 31.30	27. 30
		200	8. 33.00	25. 30
		300	8. 34.30	10. 12. -
		400	8. 36.00	12. 30
		500	8. 37.30	14. 30
Lo. 4/120.		600	8. 39.00	16. 30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
* in again, 2nd		1400		
cord, the 4th		1500		
other cord with		1600		
coming out, and		1700		
second time, the		1800		
cord, and the 3rd		1900		
cord, and the 4th		2000		
cord, and the 5th		2100		
cord, and the 6th		2200		
cord, and the 7th		2300		
cord, and the 8th		2400		

Kahuka Pt,

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

196

20

216

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Towed under way down in 20 min;
 line from start to base in 20 min.
 water ^{depth} 3000 ft., and had to
 run out to 500 ft. from in under
 line. Strain too high had to run
 out again. This time pulled in 30 ft.
 but line / 1000 ft. 500 ft. was broken.

No. *460*, Date *25 July 1901*

Sigsbee Machine. / Reel.

Turns *228* Cor. + *22* Depth *250 fms.*Shot or lead *35 lb.*Bottom *Co S. Gr.*Bottom temperature *49.5*No. of thermometer *9125* Cor. - *0.2*Corrected temperature *48.8*Air *78°* - Surface *77°* - Drift~~Trawl or dredge~~

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10.27.30	11.42.-	0
38.75	40.-	100
39.15	41.-	200
10.39.25	10.40.30	228
		300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Cat log 573

No. *Ag 4621* Date *July 26*Machine *1* Reel *1*Turns *430* Cor. + *41* Depth *471 fms*~~Shot or lead~~ *36 lb.*Bottom *Co. S. For.*Bottom temperature *40.50*No. of thermometer *98236* Cor. - 0Corrected temperature *40.5*Air *75* Surface *77* Drift~~Trawl or dredge~~

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>5.22.15</i>	<i>40.50</i>	0
<i>32.55</i>	<i>39.45</i>	100
<i>33.40</i>	<i>38.50</i>	200
<i>34.20</i>	<i>37.50</i>	300
<i>35.25</i>	<i>36.40</i>	400
<i>35.50</i>	<i>36.20</i>	500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

South-West Coast of Oahu Island		S 54° W, 6 8/10'	
Barber's Point Light,		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
4310	205	3600	
430	164	3700	
3550	11	3800	
	430	3900	
	471	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

July 92
332

No. *N 4122* Date *July 26*
Sigsbee Machine. *#10* Reel. *Hand*
 Turns *175* Cor. + *17* Depth *192 f*
 Shot or lead *36 lbs.*
 Bottom *cr. co. s. sh.*
 Bottom temperature *64.8*
 No. of thermometer *78236* Cor. *-0.2*
 Corrected temperature *64.6* *149° N*
 Air *75* Surface *35* Drift *14 10*
 Trawl or dredge *Blake 3' 5" S. H.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>6-30.30</i>	<i>37.15</i>		<i>6-34.30</i>	<i>35.30</i>
<i>31.05</i>	<i>38.00</i>	100	<i>44.30</i>	<i>34.30</i>
<i>31.50</i>	<i>38.45</i>	200	<i>47.50</i>	<i>30.30</i>
		300	<i>51.20</i>	<i>26.25</i>
		400	<i>* 55.30</i>	<i>22.10</i>
		<i>430</i>	<i>40.15</i>	<i>20.00</i>
		500		
		600		
		700	<i>* Bottom</i>	
		800	<i>25 min</i>	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Bakers Point Light, N 82° E., 2 ²/₁₀'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
4310	205	3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

333

No.

4123

Date

Machine

Reel

Turns 320 Cor. + 32

Depth 352 f

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS

DREDGE ROPE.

DOWN.

UP.

41.20

44.50

0

7.50.30

09.50

42.00

46.45

100

5.44.45

01.50

42.45

45.45

200

5.41.11

01.30

43.35

44.45

300

5.38.20

03.00

43.50

44.30

400

07.00

41.00

500

12.10

27.20

600

11.10

5.27.20

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

15

Bottom 44 fathoms, 4788, 2710'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
4510	205	3400	
320	173	3500	
3990	32	3600	
	320	3700	
	352	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

upper beam of frame slightly bent

334

007

No. 4112 H Date

Machine.

Reel.

Turns 315 Cor. + 32

Depth 357 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer 98236

Cor. -0.2

Corrected temperature 42.3

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

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TURNS.

DREDGE ROPE.

DOWN.

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TURNS.

DREDGE ROPE.

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TURNS.

DREDGE ROPE.

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TURNS.

DREDGE ROPE.

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TURNS.

DREDGE ROPE.

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TURNS.

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TURNS.

DREDGE ROPE.

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TURNS.

DREDGE ROPE.

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UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

OK

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
4210	3600	2.5
375	3700	1.3
3985	3800	1.2
	3900	1.5
	4000	1.7

REMARKS:

* 1st species collected - Oct 10:02 near
river on fine black sand beach.
The specimen placed at 10:09, vessel to
be used # 14 was at 10:50 and
1st supply tank and
2nd tank were improved. Copper
top appeared on bridge.

No. 4622 H Date 26 July 1902

Machine. / Reel.

Turns 319 Cor. + 31 Depth 350

Shot or lead 36

Bottom fine gy. S. M.

Bottom temperature 43.6

No. of thermometer 98236

Cor. -0.2

Corrected temperature 43.6

Air 81

Surface 78

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
10.44.10	0.55.25	0		
	57.30	100		
	58.30	200		
	59.20	300		
11.15.10	10.15.10	319		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

812
 118

4310 205
 314 174
 3991 51
 319
 250

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

335

No.

Date

Machine.

Reel.

Turns 886 Cor. +

Depth

Shot or lead 60

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

78° -

Surface

77° -

Drift

3.0'

Trawl or dredge

5 1/2'

Blue

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.00	7.59.45	0	45.20	3.01.00
11.00	7.59.45	100	51.20	57.00
11.00	7.59.45	200	55.00	57.00
11.00	7.59.45	300	58.20	57.00
11.00	7.59.45	400	58.20	47.20
11.00	7.59.45	500	05.40	45.45
11.00	7.59.45	600	09.00	41.45
11.00	7.59.45	700	12.10	37.50
11.00	7.59.45	800	15.10	33.50
11.00	7.59.45	900	18.10	29.50
11.00	7.59.45	1000	21.20	25.50
11.00	7.59.45	1100	25.10	21.50
11.00	7.59.45	1200	28.20	17.50
11.00	7.59.45	1300	31.00	13.50
11.00	7.59.45	1400	36.00	10.00
11.00	7.59.45	1500	41.10	06.00
11.00	7.59.45	1600	44.50	02.00
11.00	7.59.45	1700		
11.00	7.59.45	1800	16	
11.00	7.59.45	1900		
11.00	7.59.45	2000		
11.00	7.59.45	2100		
11.00	7.59.45	2200		
11.00	7.59.45	2300		
11.00	7.59.45	2400		

Kaieie Naho Channel; betn Oahu
and Kauai Ids.

2500	Kahuku Point,
2600	Oahu Is.
2700	S 77° E., 12.0'
2800	
2900	
3000	
3100	
3200	
3300	
3400	
3500	
3600	
3700	
3800	
3900	
4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

3000 lbs steam frame
Lost Black line 1/2 ft
30' line broken. Recovered
fragment of net badly torn

No. 4623 Date July 31st

Machine #4 Reel 7

Turns 1035 Cor. + 89 Depth 1124

Shot or lead 35 lb

Bottom W. S. M. Lava

Bottom temperature 36

No. of thermometer 98236 Cor. - 0

Corrected temperature 36.0

Air 80 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10-07.30	30.10	0		
08.20	27.10	100		
09.05	25.10	200		
09.55	27.10	300		
10.55	25.10	400		
11.50	25.15	500		
12.50	24.10	600		
13.55	23.10	700		
15.00	22.10	800		
16.10	20.30	900		
17.20	19.20	1000		
17.50	18.55	1100		

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Kahuku Pt, S 78° E., 14.8'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	205	3500	
1035	116	3600	
3275	89	3700	
	1035	3800	
	1122	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4126

Date 3/1/1902

Machine. / Reel.

Turns 1171 Cor. + 101

Depth 1278

Shot or lead 60

Bottom gy. s. for.

Bottom temperature 35.80

No. of thermometer 98236

Cor. -

Corrected temperature 31.50

Air 80

Surface 78

Drift

Trawl or dredge 1 1/2

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12.28.00	12.38.00	127.10
0.50	12.39.00	127.05
1.10	12.40.00	127.00
1.30	12.41.00	126.95
1.50	12.42.00	126.90
2.10	12.43.00	126.85
2.30	12.44.00	126.80
2.50	12.45.00	126.75
3.10	12.46.00	126.70
3.30	12.47.00	126.65
3.50	12.48.00	126.60
4.10	12.49.00	126.55
4.30	12.50.00	126.50
4.50	12.51.00	126.45
5.10	12.52.00	126.40
5.30	12.53.00	126.35
5.50	12.54.00	126.30
6.10	12.55.00	126.25
6.30	12.56.00	126.20
6.50	12.57.00	126.15
7.10	12.58.00	126.10
7.30	12.59.00	126.05
7.50	13.00.00	126.00
8.10	13.01.00	125.95
8.30	13.02.00	125.90
8.50	13.03.00	125.85
9.10	13.04.00	125.80
9.30	13.05.00	125.75
9.50	13.06.00	125.70
10.10	13.07.00	125.65
10.30	13.08.00	125.60
10.50	13.09.00	125.55
11.10	13.10.00	125.50
11.30	13.11.00	125.45
11.50	13.12.00	125.40
12.10	13.13.00	125.35
12.30	13.14.00	125.30
12.50	13.15.00	125.25
13.10	13.16.00	125.20
13.30	13.17.00	125.15
13.50	13.18.00	125.10
14.10	13.19.00	125.05
14.30	13.20.00	125.00
14.50	13.21.00	124.95
15.10	13.22.00	124.90
15.30	13.23.00	124.85
15.50	13.24.00	124.80
16.10	13.25.00	124.75
16.30	13.26.00	124.70
16.50	13.27.00	124.65
17.10	13.28.00	124.60
17.30	13.29.00	124.55
17.50	13.30.00	124.50
18.10	13.31.00	124.45
18.30	13.32.00	124.40
18.50	13.33.00	124.35
19.10	13.34.00	124.30
19.30	13.35.00	124.25
19.50	13.36.00	124.20
20.10	13.37.00	124.15
20.30	13.38.00	124.10
20.50	13.39.00	124.05
21.10	13.40.00	124.00
21.30	13.41.00	123.95
21.50	13.42.00	123.90
22.10	13.43.00	123.85
22.30	13.44.00	123.80
22.50	13.45.00	123.75
23.10	13.46.00	123.70
23.30	13.47.00	123.65
23.50	13.48.00	123.60
24.10	13.49.00	123.55
24.30	13.50.00	123.50
24.50	13.51.00	123.45
25.10	13.52.00	123.40
25.30	13.53.00	123.35
25.50	13.54.00	123.30
26.10	13.55.00	123.25
26.30	13.56.00	123.20
26.50	13.57.00	123.15
27.10	13.58.00	123.10
27.30	13.59.00	123.05
27.50	14.00.00	123.00
28.10	14.01.00	122.95
28.30	14.02.00	122.90
28.50	14.03.00	122.85
29.10	14.04.00	122.80
29.30	14.05.00	122.75
29.50	14.06.00	122.70
30.10	14.07.00	122.65
30.30	14.08.00	122.60
30.50	14.09.00	122.55
31.10	14.10.00	122.50
31.30	14.11.00	122.45
31.50	14.12.00	122.40
32.10	14.13.00	122.35
32.30	14.14.00	122.30
32.50	14.15.00	122.25
33.10	14.16.00	122.20
33.30	14.17.00	122.15
33.50	14.18.00	122.10
34.10	14.19.00	122.05
34.30	14.20.00	122.00
34.50	14.21.00	121.95
35.10	14.22.00	121.90
35.30	14.23.00	121.85
35.50	14.24.00	121.80
36.10	14.25.00	121.75
36.30	14.26.00	121.70
36.50	14.27.00	121.65
37.10	14.28.00	121.60
37.30	14.29.00	121.55
37.50	14.30.00	121.50
38.10	14.31.00	121.45
38.30	14.32.00	121.40
38.50	14.33.00	121.35
39.10	14.34.00	121.30
39.30	14.35.00	121.25
39.50	14.36.00	121.20
40.10	14.37.00	121.15
40.30	14.38.00	121.10
40.50	14.39.00	121.05
41.10	14.40.00	121.00
41.30	14.41.00	120.95
41.50	14.42.00	120.90
42.10	14.43.00	120.85
42.30	14.44.00	120.80
42.50	14.45.00	120.75
43.10	14.46.00	120.70
43.30	14.47.00	120.65
43.50	14.48.00	120.60
44.10	14.49.00	120.55
44.30	14.50.00	120.50
44.50	14.51.00	120.45
45.10	14.52.00	120.40
45.30	14.53.00	120.35
45.50	14.54.00	120.30
46.10	14.55.00	120.25
46.30	14.56.00	120.20
46.50	14.57.00	120.15
47.10	14.58.00	120.10
47.30	14.59.00	120.05
47.50	15.00.00	120.00
48.10	15.01.00	119.95
48.30	15.02.00	119.90
48.50	15.03.00	119.85
49.10	15.04.00	119.80
49.30	15.05.00	119.75
49.50	15.06.00	119.70
50.10	15.07.00	119.65
50.30	15.08.00	119.60
50.50	15.09.00	119.55
51.10	15.10.00	119.50
51.30	15.11.00	119.45
51.50	15.12.00	119.40
52.10	15.13.00	119.35
52.30	15.14.00	119.30
52.50	15.15.00	119.25
53.10	15.16.00	119.20
53.30	15.17.00	119.15
53.50	15.18.00	119.10
54.10	15.19.00	119.05
54.30	15.20.00	119.00
54.50	15.21.00	118.95
55.10	15.22.00	118.90
55.30	15.23.00	118.85
55.50	15.24.00	118.80
56.10	15.25.00	118.75
56.30	15.26.00	118.70
56.50	15.27.00	118.65
57.10	15.28.00	118.60
57.30	15.29.00	118.55
57.50	15.30.00	118.50
58.10	15.31.00	118.45
58.30	15.32.00	118.40
58.50	15.33.00	118.35
59.10	15.34.00	118.30
59.30	15.35.00	118.25
59.50	15.36.00	118.20
60.10	15.37.00	118.15
60.30	15.38.00	118.10
60.50	15.39.00	118.05
61.10	15.40.00	118.00
61.30	15.41.00	117.95
61.50	15.42.00	117.90
62.10	15.43.00	117.85
62.30	15.44.00	117.80
62.50	15.45.00	117.75
63.10	15.46.00	117.70
63.30	15.47.00	117.65
63.50	15.48.00	117.60
64.10	15.49.00	117.55
64.30	15.50.00	117.50
64.50	15.51.00	117.45
65.10	15.52.00	117.40
65.30	15.53.00	117.35
65.50	15.54.00	117.30
66.10	15.55.00	117.25
66.30	15.56.00	117.20
66.50	15.57.00	117.15
67.10	15.58.00	117.10
67.30	15.59.00	117.05
67.50	16.00.00	117.00
68.10	16.01.00	116.95
68.30	16.02.00	116.90
68.50	16.03.00	116.85
69.10	16.04.00	116.80
69.30	16.05.00	116.75
69.50	16.06.00	116.70
70.10	16.07.00	116.65
70.30	16.08.00	116.60
70.50	16.09.00	116.55
71.10	16.10.00	116.50
71.30	16.11.00	116.45
71.50	16.12.00	116.40
72.10	16.13.00	116.35
72.30	16.14.00	116.30
72.50	16.15.00	116.25
73.10	16.16.00	116.20
73.30	16.17.00	116.15
73.50	16.18.00	116.10
74.10	16.19.00	116.05
74.30	16.20.00	116.00
74.50	16.21.00	115.95
75.10	16.22.00	115.90
75.30	16.23.00	115.85
75.50	16.24.00	115.80
76.10	16.25.00	115.75
76.30	16.26.00	115.70
76.50	16.27.00	115.65
77.10	16.28.00	115.60
77.30	16.29.00	115.55
77.50	16.30.00	115.50
78.10	16.31.00	115.45
78.30	16.32.00	115.40
78.50	16.33.00	115.35
79.10	16.34.00	115.30
79.30	16.35.00	115.25
79.50	16.36.00	115.20
80.10	16.37.00	115.15
80.30	16.38.00	115.10
80.50	16.39.00	115.05
81.10	16.40.00	115.00
81.30	16.41.00	114.95
81.50	16.42.00	114.90
82.10	16.43.00	114.85
82.30	16.44.00	114.80
82.50	16.45.00	114.75
83.10	16.46.00	114.70
83.30	16.47.00	114.65
83.50	16.48.00	114.60
84.10	16.49.00	114.55
84.30	16.50.00	114.50
84.50	16.51.00	114.45
85.10	16.52.00	114.40
85.30	16.53.00	114.35
85.50	16.54.00	114.30
86.10	16.55.00	114.25
86.30	16.56.00	114.20
86.50	16.57.00	114.15
87.10	16.58.00	114.10
87.30	16.59.00	114.05
87.50	17.00.00	114.00
88.10	17.01.00	113.95
88.30	17.02.00	113.90
88.50	17.03.00	113.85
89.10	17.04.00	113.80
89.30	17.05.00	113.75
89.50	17.06.00	113.70
90.10	17.07.00	113.65
90.30	17.08.00	113.60
90.50	17.09.00	113.55
91.10	17.10.00	113.50
91.30	17.11.00	113.45
91.50	17.12.00	113.40
92.10	17.13.00	113.35
92.30	17.14.00	113.30
92.50	17.15.00	113.25
93.10	17.16.00	113.20
93.30	17.17.00	113.15
93.50	17.18.00	113.10
94.10	17.19.00	113.05
94.30	17.20.00	113.00
94.50	17.21.00	112.95
95.10	17.22.00	112.90
95.30	17.23.00	112.85
95.50	17.24.00	112.80
96.10	17.25.00	112.75
96.30	17.26.00	112.70
96.50	17.27.00	112.65
97.10	17.28.00	112.60
97.30	17.29.00	112.55
97.50	17.30.00	112.50
98.10	17.31.00	112.45
98.30	17.32.00	112.40
98.50	17.33.00	112.35
99.10	17.34.00	112.30
99.30	17.35.00	112.25
99.50	17.36.00	112.20
100.10	17.37.00	112.15
100.30	17.38.00	112.10
100.50	17.39.00	1

Kahuku Point, S 72° E., 25.0'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
117.8	100	3700	
5.522	100	3800	
	117.8	3900	
	127.8	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4624*Date *3/5/10*Machine. *1*

Reel.

Turns *682* Cor. + *61*Depth *743*~~Shot or lead~~ *60*Bottom *fine sand*Bottom temperature *38.0*No. of thermometer *48206*Cor. *-0*Corrected temperature *38.0*Air *78*Surface *78*

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>2 31.10</i>	<i>3.45.10</i>	0		
<i>32.00</i>	<i>3.44.45</i>	100		
<i>33.00</i>	<i>3.44.15</i>	200		
<i>34.00</i>	<i>3.43.45</i>	300		
<i>35.00</i>	<i>3.43.15</i>	400		
<i>36.00</i>	<i>3.42.45</i>	500		
<i>37.00</i>	<i>3.42.15</i>	600		
<i>38.00</i>	<i>3.41.45</i>	700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

~~Kahuku~~ Kahuku Point, 8730 E., 218/10'

11.5
6.5
5.5

2.0
6.5
3.5

2.0
144
61
517
- 1.5
3900

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *425* Date *31 Aug 1902**Sigsbee* Machine. / Reel. *Mary*Turns *810* Cor. + *77* Depth *887 fms.*Shot or lead *60 Lbs.*Bottom *For. vol S.*Bottom temperature *36.7*No. of thermometer *98236* Cor. *-0*Corrected temperature *36.7°*Air *79°* - Surface *78°* - Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>4.35. -</i>	<i>4.50.00</i>	0		
<i>35.45</i>	<i>49.45</i>	100		
<i>36.10</i>	<i>48.20</i>	200		
<i>37.10</i>	<i>47.20</i>	300		
<i>38.10</i>	<i>46.20</i>	400		
<i>39. -</i>	<i>45.10</i>	500		
<i>40.55</i>	<i>45.10</i>	600		
<i>42.55</i>	<i>44.10</i>	700		
<i>44.45</i>	<i>43. -</i>	800		
<i>46.10</i>	<i>42.00</i>	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kahuku Point, 27° 15' E, 36 7/10'

OK
12/10
257

12/10
8' 10
3000

205
120
310

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4142* Date *31 Aug 00*Machine. / Reel. *Hand*Turns *1250* Cor. + *106* (Depth *1356* fms.)Shot or lead *35* Lbs.Bottom *fine Fr. cor. vol 2.*Bottom temperature *35.3*No. of thermometer *9633* Cor. *-10*Corrected temperature *35.3°*Air *78°* - Surface *78°* - Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>5.40.15</i>	<i>6.07.25</i>	<i>0</i>		
<i>41.10</i>	<i>06.25</i>	<i>100</i>		
<i>42.5</i>	<i>05.25</i>	<i>200</i>		
<i>42.55</i>	<i>04.30</i>	<i>300</i>		
<i>43.45</i>	<i>03.30</i>	<i>400</i>		
<i>44.15</i>	<i>02.45</i>	<i>500</i>		
<i>45.45</i>	<i>01.35</i>	<i>600</i>		
<i>46.45</i>	<i>6.00.30</i>	<i>700</i>		
<i>47.50</i>	<i>59.30</i>	<i>800</i>		
<i>48.45</i>	<i>58.20</i>	<i>900</i>		
<i>50.05</i>	<i>57.10</i>	<i>1000</i>		
<i>51.10</i>	<i>56. -</i>	<i>1100</i>		
<i>52.20</i>	<i>54.45</i>	<i>1200</i>		
<i>5.53. -</i>	<i>5.54.05</i>	<i>1250</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Kahuku Point, 1872° 30' E., 42.0'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
43.0	2.05	3600	
12.0	2.0	3700	
30.0	1.06	3800	
	12.5	3900	
	1.26	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *44* 4627 Date *31* *Aug* 1907
 Machine. / Reel. *Har*
 Turns *1655* Cor. + *134* Depth *1819* fms.
 Shot or lead *60* Lbs.
 Bottom *S. gy. m.*
 Bottom temperature *35.0*
 No. of thermometer *98236* Cor. *-0*
 Corrected temperature *35.0*
 Air *78* Surface *78* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>24.10</i>	<i>22.10</i>	0		
<i>25.15</i>	<i>21.05</i>	100		
<i>26.20</i>	<i>20.00</i>	200		
<i>27.25</i>	<i>18.55</i>	300		
<i>28.30</i>	<i>17.50</i>	400		
<i>29.35</i>	<i>16.40</i>	500		
<i>30.40</i>	<i>15.35</i>	600		
<i>31.45</i>	<i>14.25</i>	700		
<i>32.50</i>	<i>13.15</i>	800		
<i>33.55</i>	<i>12.05</i>	900		
<i>35.00</i>	<i>10.55</i>	1000		
<i>36.05</i>	<i>09.45</i>	1100		
<i>37.10</i>	<i>08.35</i>	1200		
<i>38.15</i>	<i>07.20</i>	1300		
<i>39.20</i>	<i>06.10</i>	1400		
<i>40.25</i>	<i>04.50</i>	1500		
<i>41.30</i>	<i>03.30</i>	1600		
<i>42.35</i>	<i>02.30</i>	1655		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kahuku Point, 8710 E., 52.0'

OK
J.H.

4318
1655
2620
71
134
1655
1819

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

337

No.

4127

Date

July 31

Machine.

Reel.

Turns/255 Cor. +

107

Depth

1362 fms

Shot or lead

35 lb

Bottom

Frag. Sh. For. rly S. R.

Bottom temperature

35.3

No. of thermometer

75236

Cor.

-0

Corrected temperature

35.3

Air

78

Surface

78

Drift

(874 W 4.5)

Trawl or dredge 5 1/2 Blake, "Station Model" No.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10-06-40	34.10	0	10-43.50	
07-25	33.05	100	47.00	2-50.40
08-10	32.05	200	50.35	
09-05	31.05	300	54.50	
10-00	30.00	400	57.30	
11-00	29.50	500	11-04.10	
12-00	29.50	600	08.00	
13-00	29.00	700	13.00	2-50.40
14-00	28.30	800	17.50	
15-00	24.20	900	22 =	
16-00	23.00	1000	27.50	16.20
17-00	21.50	1100	33.50	11.40
18-00	20.40	1200	37.20	2-50.40
19-00	20.10	1300	41.40	
		1400	45.50	
		1500	50.00	
		1600	54.00	
		1700	57.00	
		1800	01.00	
		1900	04.30	1.19.00
		2000	07.00	
		2100	11.30	
		2200	16.00	
		2300		
		2400	23.00	

2500	
2600	
2700	
2800	
2900	
3000	
3100	
3200	
3300	
3400	
3500	
3600	
3700	
3800	
3900	
4000	

4310	205
1255	78
3055	127
	1255
	1362

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS: at 2000 hrs,
150
very heavy,
no. landed and observed
very heavy storm at 2000 hrs
no. landed and observed
very heavy storm at 2000 hrs

No. *4623* Date *1 Sept 1907*

Machine. *1* Reel. *100*

Turns *326* Cor. + *24* Depth *350 fms*

Shot or lead *35*

Bottom *Co. vol s.*

Bottom temperature *43.9*

No. of thermometer *98236* Cor. *-0.2*

Corrected temperature *42.8°*

Air *77* Surface *77* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>3:05:10</i>		0
<i>04:01</i>		100
<i>05:40</i>		200
<i>06:51</i>		300
<i>3:09:40</i>		<i>326</i>
		400
		500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

Hanamaulu Whse, S 31° 30' W, 9.0'

	2500	S 31° 30' W
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4310 201	3500	
326 153	3600	
5730 21	3700	
	3800	
5730	3900	
3118 124	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

338

P.L. = 15.5

No. *4128* Date

Machine. Reel.

Turns *730* Cor. + *22* Depth *752*

Shot or lead *35 lbs.*

Bottom *crs. br. co. S. Fm.*

Bottom temperature *48. -*

No. of thermometer *98236* Cor. *-0.2*

Corrected temperature *47.8°* (*N 75° E*)

Air *78°* - Surface *77°* - Drift *0.5'*

Trawl or dredge *8' Blake*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>5.28.15</i>	<i>5.25.15</i>	0	<i>5.28.15</i>	<i>5.25.15</i>
<i>5.29.15</i>	<i>5.24.15</i>	100	<i>5.29.15</i>	<i>5.24.15</i>
<i>5.30.15</i>	<i>5.23.15</i>	200	<i>5.30.15</i>	<i>5.23.15</i>
<i>5.31.15</i>	<i>5.22.15</i>	300	<i>5.31.15</i>	<i>5.22.15</i>
		400	<i>5.32.15</i>	<i>5.21.15</i>
		500	<i>5.33.15</i>	<i>5.20.15</i>
		600	<i>5.34.15</i>	<i>5.19.15</i>
		700	<i>5.35.15</i>	<i>5.18.15</i>
		800	<i>5.36.15</i>	<i>5.17.15</i>
		900	<i>5.37.15</i>	<i>5.16.15</i>
		1000	<i>5.38.15</i>	<i>5.15.15</i>
		1100	<i>5.39.15</i>	<i>5.14.15</i>
		1200	<i>5.40.15</i>	<i>5.13.15</i>
		1300	<i>5.41.15</i>	<i>5.12.15</i>
		1400	<i>5.42.15</i>	<i>5.11.15</i>
		1500	<i>5.43.15</i>	<i>5.10.15</i>
		1600	<i>5.44.15</i>	<i>5.09.15</i>
		1700	<i>5.45.15</i>	<i>5.08.15</i>
		1800	<i>5.46.15</i>	<i>5.07.15</i>
		1900	<i>5.47.15</i>	<i>5.06.15</i>
		2000	<i>5.48.15</i>	<i>5.05.15</i>
		2100	<i>5.49.15</i>	<i>5.04.15</i>
		2200	<i>5.50.15</i>	<i>5.03.15</i>
		2300	<i>5.51.15</i>	<i>5.02.15</i>
		2400	<i>5.52.15</i>	<i>5.01.15</i>

Hanamaulu Whse, N 44° 30' W., 2.6'

Intermediate depth, N 31° 30' W., 2.5'

68-90 fm -

2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

* The surface current was 1.5 mi.
Sounding at 100 fms. at 100 fms.
But from 100 fms. down at 100
fms. in angle found at 90 fms. and
a smallish or polygonal shape in
the net.

339

No. *Dr. 4129* Date *1 June 1902*

Machine. Reel.

Turns *163* Cor. + *16* Depth *179 fms.*

Shot or lead *36 Lbs.*

Bottom *crs co S. For.*

Bottom temperature *59.2*

No. of thermometer *98236* Cor. *+0.3*

Corrected temperature *58.9* (*58.9*)

Air *75.6* - Surface *75.6* Drift *0.7'*

Trawl or dredge *8' Blake*

Am. SOUNDING WIRE.

DOWN.	UP.
<i>6.44.00</i>	<i>6.51.00</i>
<i>50.00</i>	<i>50.00</i>
<i>6.51.00</i>	<i>6.52.00</i>
<hr/>	
<i>6.52.00</i>	
<i>6.53.00</i>	
<i>6.54.00</i>	
<i>6.55.00</i>	
<i>6.56.00</i>	
<i>6.57.00</i>	
<i>6.58.00</i>	
<i>6.59.00</i>	
<i>7.00.00</i>	
<i>7.01.00</i>	
<i>7.02.00</i>	
<i>7.03.00</i>	
<i>7.04.00</i>	
<i>7.05.00</i>	
<i>7.06.00</i>	
<i>7.07.00</i>	
<i>7.08.00</i>	
<i>7.09.00</i>	
<i>7.10.00</i>	
<i>7.11.00</i>	
<i>7.12.00</i>	
<i>7.13.00</i>	
<i>7.14.00</i>	
<i>7.15.00</i>	
<i>7.16.00</i>	
<i>7.17.00</i>	
<i>7.18.00</i>	
<i>7.19.00</i>	
<i>7.20.00</i>	
<i>7.21.00</i>	
<i>7.22.00</i>	
<i>7.23.00</i>	
<i>7.24.00</i>	

TURNS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

Am. DREDGE ROPE.

DOWN.	UP.
100.00	100.00
99.99	99.99
99.98	99.98
99.97	99.97
99.96	99.96
99.95	99.95
99.94	99.94
99.93	99.93
99.92	99.92
99.91	99.91
99.90	99.90
99.89	99.89
99.88	99.88
99.87	99.87
99.86	99.86
99.85	99.85
99.84	99.84
99.83	99.83
99.82	99.82
99.81	99.81
99.80	99.80
99.79	99.79
99.78	99.78
99.77	99.77
99.76	99.76
99.75	99.75
99.74	99.74
99.73	99.73
99.72	99.72
99.71	99.71
99.70	99.70
99.69	99.69
99.68	99.68
99.67	99.67
99.66	99.66
99.65	99.65
99.64	99.64
99.63	99.63
99.62	99.62
99.61	99.61
99.60	99.60
99.59	99.59
99.58	99.58
99.57	99.57
99.56	99.56
99.55	99.55
99.54	99.54
99.53	99.53
99.52	99.52
99.51	99.51
99.50	99.50
99.49	99.49
99.48	99.48
99.47	99.47
99.46	99.46
99.45	99.45
99.44	99.44
99.43	99.43
99.42	99.42
99.41	99.41
99.40	99.40
99.39	99.39
99.38	99.38
99.37	99.37
99.36	99.36
99.35	99.35
99.34	99.34
99.33	99.33
99.32	99.32
99.31	99.31
99.30	99.30
99.29	99.29
99.28	99.28
99.27	99.27
99.26	99.26
99.25	99.25
99.24	99.24
99.23	99.23
99.22	99.22
99.21	99.21
99.20	99.20
99.19	99.19
99.18	99.18
99.17	99.17
99.16	99.16
99.15	99.15
99.14	99.14
99.13	99.13
99.12	99.12
99.11	99.11
99.10	99.10
99.09	99.09
99.08	99.08
99.07	99.07
99.06	99.06
99.05	99.05
99.04	99.04
99.03	99.03
99.02	99.02
99.01	99.01
99.00	99.00

Sanamaulu Whse, N 42° 30' W., 2.8'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

340

507.

Albatross
Albatross
Albatross

4130

Date

Machine.

Recl.

Turns 257

Cor. +

26

Depth 283

Shot or lead 36 Lbs.

Bottom

Bottom temperature

46.3°

No. of thermometer

Cor. -0.2

Corrected temperature

46.1°

(5416°9)

Air

78° -

Surface

77° -

Drift

1.4'

Trawl or dredge

10' Blue Trawl

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

51.50

0

7.50.00

04.40

53.40

100

8.00.50

9.01.15

47.20

200

05.30

57.30

48.00

257

09.40

54.30

49.00

300

14.35

51.00

50.00

400

19.15

47.25

51.00

500

21.50

44.00

52.00

600

20.50

57.00

53.00

700

20.50

57.00

54.00

800

20.50

57.00

55.00

900

20.50

57.00

56.00

1000

20.50

57.00

57.00

1100

20.50

57.00

58.00

1200

20.50

57.00

59.00

1300

20.50

57.00

60.00

1400

20.50

57.00

61.00

1500

20.50

57.00

62.00

1600

20.50

57.00

63.00

1700

20.50

57.00

64.00

1800

20.50

57.00

65.00

1900

20.50

57.00

66.00

2000

20.50

57.00

67.00

2100

20.50

57.00

68.00

2200

20.50

57.00

69.00

2300

20.50

57.00

70.00

2400

20.50

57.00

71.00

2500

20.50

57.00

72.00

2600

20.50

57.00

73.00

2700

20.50

57.00

74.00

2800

20.50

57.00

75.00

2900

20.50

57.00

76.00

3000

20.50

57.00

77.00

3100

20.50

57.00

78.00

3200

20.50

57.00

79.00

3300

20.50

57.00

80.00

3400

20.50

57.00

81.00

3500

20.50

57.00

82.00

3600

20.50

57.00

83.00

3700

20.50

57.00

84.00

3800

20.50

57.00

85.00

3900

20.50

57.00

86.00

4000

20.50

57.00

87.00

4100

20.50

57.00

88.00

4200

20.50

57.00

89.00

4300

20.50

57.00

90.00

4400

20.50

57.00

91.00

4500

20.50

57.00

92.00

4600

20.50

57.00

93.00

4700

20.50

57.00

94.00

4800

20.50

57.00

95.00

4900

20.50

57.00

96.00

5000

20.50

57.00

97.00

5100

20.50

57.00

98.00

5200

20.50

57.00

99.00

5300

20.50

57.00

100.00

5400

20.50

57.00

101.00

5500

20.50

57.00

102.00

5600

20.50

57.00

103.00

5700

20.50

57.00

104.00

5800

20.50

57.00

105.00

5900

20.50

57.00

106.00

6000

20.50

57.00

107.00

6100

20.50

57.00

108.00

6200

20.50

57.00

109.00

6300

20.50

57.00

110.00

6400

20.50

57.00

111.00

6500

20.50

57.00

112.00

6600

20.50

57.00

113.00

6700

20.50

57.00

114.00

6800

20.50

57.00

115.00

6900

20.50

57.00

116.00

7000

20.50

57.00

117.00

7100

20.50

57.00

118.00

7200

20.50

57.00

119.00

7300

20.50

57.00

120.00

7400

20.50

57.00

121.00

7500

20.50

57.00

122.00

7600

20.50

57.00

123.00

Hanamaulu Whse, N 61° W., 2.2'

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

341

507.

No.

Date

Aug 1st

Machine #1

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.09.25	15.40	0	9.50.20	25.10
10.10	14.30	100	24.40	21.55
11.05	13.20	200	25.20	18.35
11.50	12.30	300	32.40	15.01
		400	36.30	11.40
		430	38.00	08.00
		500		
		600		
		530	59.30	10.15.30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hanamaulu Whse, S 81° 30' W., 2.2'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4510	205	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

D^o 4132

Date

Aug 1st

Machine

Reel

Havy

Turns 234 Cor. +

23

Depth

257 fms

Shot or lead

36 lbs

Bottom

gy S. N

Bottom temperature

47.0

No. of thermometer

98236

Cor.

-0.2

Corrected temperature

46.8

(NG)

Air

50

Surface

77

Drift

{ 1.7'

Trawl or dredge

Havy Mangle, with 1/2 in

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
10-28.25	33.50	0	10-38.15	21.10
29.20	32.40	100	42.50	20.10
30.05	31.30	200	47.05	19.10
30.30	31.05	234	51.20	18.10
		300	55.45	17.10
		400		16.10
		500	11-00.00	15.10
		600	* 04.40	14.10
		700	13.50	13.10
		800	21.40	12.10
		900		
		1000	28.70	
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Marked end of
D 4131

* Bottom

Hanamaulu Whse, S 37° W., 2.7'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	205	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2500 fathoms 775 fms.
 Not slightly torn -
 used in net.

343

No. 41133 D Date 1901 Aug 27
 Machine. Reel.
 Turns 284 Cor. + 26 Depth 310 fms
 Shot or lead 36
 Bottom M. gy. S. R
 Bottom temperature 44.7
 No. of thermometer 11256 Cor. -0.2
 Corrected temperature 43.8°
 Air 71 Surface Drift 0.81° N
 Trawl or dredge 8 ft. Blue, fine, 1 ft. fine

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
20.00	29.10	0	1.00.00	1.20.00
20.40	28.10	100	1.01.30	
21.40	27.10	200	1.03.00	1.20.00
22.30	26.10	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

0.001

5. 11. 1954

10

[illegible]

DATE	TIME	REMARKS:
1911-12-17	10:00 AM

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.50	1.27.10	0		
12.20	1.26.30	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Atanamaulu Whse, S 30° 74', 28/10'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

500.

No.

4134

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

29 min.

Hanamaulu Whse, S35°30' W., 5 2/10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

345

No. *4135* Date *May 11 1901*
 Machine. Reel.
 Turns *225* Cor. + *0* Depth *225*

Shot or lead

Bottom *fine co S.*

Bottom temperature

No. of thermometer

Cor. *-0.3*

Corrected temperature

51.40

(N 33° E)

Air

22

Surface

78

Drift

0.7'

Trawl or dredge *8' B*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

3.50.00 24.0
3.51.00 38.10
3.52.40 39.10

0
100
200
~~225~~
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

3.48.40 4.26.30
3.56.50 4.17.10
20 1/2 min.

Also marks and
...

Hanamaulu Whse, S 31° 30' W., 6 2/10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

When 12 fms. at all night, then
 at 30 fms. at 200 fms. Terminal
 water haul almost.
 Net evidently on bottom but short
 time; not on bottom when thought.

576

not
Drill

No. *100* Date *Aug 12*

Sigsbee Machine. / Reel. *100*

Turns *207* Cor. + *2* Depth *209 fms.*

Shot or lead *36* Lbs.

Bottom *fine co S.*

Bottom temperature *44.4*

No. of thermometer *2000* Cor. *-0.2*

Corrected temperature *44.2* (*0131*)

Air *83°* - Surface *78°* - Drift *0.8'*

Trawl or dredge *8' E. - 411*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>20.20</i>	<i>11.35.25</i>	0	<i>11.35.25</i>	<i>5.28.00</i>
<i>30.15</i>	<i>34.35</i>	100	<i>11.45</i>	<i>33.45</i>
<i>31.10</i>	<i>33.35</i>	200	<i>11.55</i>	<i>30</i>
<i>21.45</i>	<i>11.22</i>	<i>267</i>	<i>12.05</i>	<i>25.00</i>
		<i>300</i>	<i>12.15</i>	<i>20.00</i>
		400	<i>12.25</i>	<i>15.00</i>
<i>Also marks and</i>		500	<i>12.35</i>	<i>10.00</i>
<i>at</i>		<i>51</i>		<i>5.00</i>
<i>Dr. 4/35</i>		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Atanamaulu Whse, S 21° 45' W., 6.9'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
257	3500	
257	3600	
257	3700	
4310	3800	205
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

at 370 fms. from shore bottom. While
 towing on 500 fms. a strain of 200 lbs.
 was put on the line. At 300 fms. when
 hauling in, there was a sudden release
 on the accumulator.

No. *4630* Date *Aug 1st*
~~Machine~~ Machine. *#1* Reel. *Shaw*
 Turns *320* Cor. + *32* Depth *352 fms.*
~~Shot or lead~~ *36 lb*
 Bottom *Co. mang. S. For.*
 Bottom temperature *42.8*
 No. of thermometer *95236* Cor. *-0.2*
 Corrected temperature *42.6°*
 Air *82°* - Surface *78°* - Drift
~~Trawl or dredge~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5-30.35</i>	<i>5.43.10</i>	0		
<i>31.30</i>	<i>31.55</i>	100		
<i>32.20</i>	<i>32.40</i>	200		
<i>33.10</i>	<i>33.20</i>	300		
<i>34.00</i>	<i>34.10</i>	400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hanamaulu Whse, S 31° 30' N., 7 7/10'.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4310	205	3500	
320	173	3600	
3990	332	3700	
	320	3800	
	352	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Di. 4137 Date 1 Aug. '02

Sigsbee Machine. / Reel. Navy.

Turns 375 Cor. + 36 Depth 411 fms.

Shot or lead 36 lbs.

Bottom bot Vol S. For R

Bottom temperature 41-

No. of thermometer 98236. Cor. -0

Corrected temperature 41.0° (N 5° W)

Air 79. - Surface 78. - Drift 1.4'

Trawl or dredge 8' B. Albatross, with apron

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7.22.-		0	7.39.30	17.30
22.50	29.35	100	44.40	13.50
24.-	28.30	200	49.30	09.55
25.-	27.30	300	55.30	05.50
7.25.40	7.26.40	375	8.00.30	01.50
		400	05.40	57.40
		500	10.40	53.10
		600	18.00	49.10
		700	23.50	44.50
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Surface Net

7.45.0 8.06.00

21 min

1 haul 21 min

net torn by
seas

Cloudy, Misty, Gentle
E. N. E. breeze, ~~Smooth sea~~
Light sea with occasional
short quick surges.

Hanamaulu Whar, N 65° 15' W., 4.0

$$\begin{array}{r} 4310 - 295 \\ 375 \\ \hline 3935 \end{array} \quad \begin{array}{r} 295 \\ 169 \\ \hline 38 \\ 375 \\ \hline 412 \end{array}$$

Birds parted from one
of the runners, net
and spun slightly
torn.

Bowser
N. E.

$$\begin{array}{r}
 4137 \\
 3790 \\
 \hline
 347 \\
 342 \\
 \hline
 309
 \end{array}$$